

1. (Amended) A system for collecting, conveying, and storing urine discharged from a penis of a human male comprising

means for collection of said urine from said human male comprising proximal and distal ends and outer and inner surfaces;

means for storage of said urine before disposal of said urine comprising proximal and distal ends and outer and inner surfaces;

Al means for conveying said urine from said means for collection of said urine to said means for storage of said urine comprising proximal and distal ends and outer and inner surfaces; and

means for wicking said urine away from the penis wherein said means for wicking moves said urine counter-gravitationally and gravitationally away from the penis through said means for collection and said means for conveying, and deposits said urine in said means for storage.

2. (Amended) The system as in claim 1 further comprising

first means for connection which connects said means for collection and said means for conveying and which comprises an outer surface and an inner surface; and

second means for connection which connects said means for conveying and said means for storage and which comprises an outer surface and an inner surface,

wherein said first means for connection is selected from a group consisting of fixed and removable, and said second means for connection is selected from a group consisting of

fixed and removable, and wherein said distal end of said means for collection is

connected to said proximal end of said means for conveying through said first means for

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connection, and said distal end of said means for conveying is connected to said proximal end of said storage device through said second means for connection.

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4. (Amended) The system as in claim 1 wherein said means for wicking comprises

first wicking spacer disposed within said means for collection;

second wicking spacer disposed within said means for conveying,

third wicking spacer disposed within said means for storage of said urine;

first wicking spacer piece forming contiguous wicking connections between said

first wicking spacer and said second wicking spacer; and

second wicking spacer piece forming contiguous wicking connections between said

second wicking spacer and said third wicking spacer, wherein said first wicking spacer,

said first wicking spacer piece, said second wicking spacer, said second wicking spacer

piece, and said third wicking spacer collectively form a complete wicking path from said

means for collection to said means for storage.

5. (Amended) The system as in claim 1 further comprising at least one continuous urine impervious shell disposed on said outer surface of said means for collection, said outer surface of said means for storage, and said outer surface of said means of conveying.

6. (Amended) The system as in claim 2 further comprising at least one continuous urine impervious shell disposed on said outer surface of said means for collection, said outer surface of said means for storage, said outer surface of said means of conveying, said

outer surface of said first means for connection, and said outer surface of said second means for connection.

AZ 7. (Amended) The system as in claim 1 wherein said means for wicking comprises a material selected from a group consisting of single component fibers selected from a group consisting of wool, cellulose, rayon, nylon, and polyester; blended fibers selected from a group consisting of wool, cellulose, rayon, nylon, and polyester; said single component fibers and said blended fibers being fabricated into a form selected from a group consisting of yarns, woven fabrics, mats, and felts; open-cell foamed polymers selected from a group consisting of polyurethane foams, polyvinylalcohol foams, and cellulose sponges; open-mesh fibrous mats of metallic materials selected from a group consisting of steel wool and copper wools; open-mesh fibrous mats of synthetic polymers selected from a group consisting of polypropylene and nylon; sheets of flexible solid materials selected from a group consisting of latex and polyolefins; films of flexible solid materials selected from a group consisting of latex and polyolefins.

8. (Amended) The system as in claim 1 wherein said means for collection comprises  
means for wicking the urine away from the penis;  
thin-wall hollow conduction tube having proximal and distal ends and a cavity  
sufficiently large to surround the penis; and  
compression tube having proximal and distal ends and sufficient size to be  
disposed around and provide radial compression contact upon the penis at said proximal

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end of said conduction tube, wherein said means for wicking is disposed within said conduction tube.

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10. (Amended) The system as in claim 8 wherein said compression tube proximal end is connected to said conduction tube proximal end and is properly sized to provide an area of radial compression contact on the penis that is sufficient to hold said compression tube substantially in place and to seal against leakage of the urine between the penis and said compression tube.

11. (Amended) The system as in claim 8 wherein said conduction tube comprises a material selected from a group consisting of thin-wall flat tubing, rubbery polymer, silicone rubber, latex rubber, polyolefin, flexible film material, fabrics, elastic, and elasticized fabric wherein said material is physically flexible, facilitates liquid sealing, and enables frictional stability of said means for collection when worn by said human male.

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19. (Amended) The system as in claim 4 further comprising a human male penis tip inserted into said means for collection wherein said first wicking spacer disposed within said means for collection is located between said penis tip and said first means of connection.

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15 22. (Amended) The system as in claim 4 wherein said first wicking spacer comprises a y-shape having a tail and two legs such that said legs of said y-shape lie in proximity to said inner surface of said means for collection.

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16 26. (Amended) The system as in claim 1 wherein said means for collection comprises

Sheath tube having a tube cavity sufficiently large to surround the penis, said sheath tube having an opening radial edge;

Means for covering the penis with said sheath tube;

Means for securing said sheath tube to the penis; and

means for wicking said urine away from the penis that is disposed within said sheath tube, wherein said sheath tube is held in place on the penis by said means for securing.

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17 35. (Amended) The system as in claim 1 wherein said means for conveyance comprises

waterproof conveyance tube film layer;

conveyance tube having an exterior surface upon which said waterproof conveyance tube film layer is disposed and a hollow interior into which the penis is placed;

means for wicking said urine through said conveyance tube wherein said means for wicking prevents said interior of said conveyance tube from becoming blocked when crimped or kinked;

wherein said means for wicking is disposed within said conveyance tube film layer and the combination of said means for wicking with said film layer is sufficiently flexible to conform to normal bodily movement and position.

36. (Amended) The system as in claim 35 wherein said means for wicking comprises a material, having internal structure and external surface, wherein said internal structure is flexible, of low density so as not to add substantial weight to said conveyance tube, open/porous, and relatively more wettable by water than polyolefins, and wherein said external surface is rough.

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37. (Amended) The system as in claim 35 wherein said means for wicking comprises a material selected from a group consisting of rayon felt having a width from approximately 15 to 50 mm (0.6 to 2 inch) and a thickness from approximately 2.54 to 5.08 mm (0.1 to 0.2 inch); bonded cellulose acetate fiber bundle; nylon mesh; and polyethylene films in 3- to 10-mil thickness.

38. (Amended) The system as in claim 35 wherein said waterproof conveyance tube film layer is selected from a group consisting of a wettable material and a material that has been subjected to surface treatments to render that said conveyance tube film layer wettable for holding liquid.

39. (Amended) The system as in claim 1 wherein said means for storage comprises means for wicking said urine into and within said means for storage;

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means for directing said urine into specific parts of said means for storage;  
means for absorbing said urine within said means for storage; and  
means for retaining said urine within said means for storage, said means for wicking, said means for directing, and said means for absorption are all enclosed in said means for storage.

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41. (Amended) The system as in claim 1 wherein said means for storage comprises straps connected to said means for storage for mounting said means for storage onto said human male.

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43. The system as in claim 35 wherein said conveyance tube comprises thin-wall material.

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45. (Amended) A urine collection device for collecting urine from the penis of a human male comprising

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thin-wall hollow conduction tube having proximal and distal ends and a cavity sufficiently large to surround the penis;

compression tube having proximal and distal ends and sufficient radial size at said proximal end to be disposed around and provide radial compression contact upon the penis and said proximal end of said conduction tube; and

means for wicking said urine counter-gravitationally and gravitationally away from the penis after said urine emerges from the penis and while said urine is within said

conduction tube and said compression tube, wherein said means for wicking is disposed within said compression tube and said conduction tube.

46. (Amended) The urine collection device as in claim 45 wherein said compression tube is properly sized to provide radial compression contact on said conduction tube that is sufficient to hold said conduction tube substantially in place and to seal against leakage of said urine from said conduction tube to the penis.

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47. (Amended) The urine collection device as in claim 45 wherein said compression tube distal end is connected to said conduction tube proximal end and is properly sized to provide an area of radial compression contact on said penis that is sufficient to hold said compression tube substantially in place and to seal against leakage of said urine from said conduction tube to the penis.

48. (Amended) The urine collection device as in claim 45 wherein said conduction tube comprises a material selected from a group consisting of thin-wall flat tubing, rubbery polymer, silicone rubber, latex rubber, polyolefin, flexible film material, fabrics, elastic, and elasticized fabric wherein said material is physically flexible, facilitates liquid sealing, and enables frictional stability of said urine collection device when worn by said human male.

49. (Amended) The urine collection device as in claim 45 wherein said means for wicking comprises a material selected from a group consisting of rayon acetate needled



A10 felting; single component fibers selected from a group consisting of wool, cellulose, rayon, nylon, and polyester; blended fibers selected from a group consisting of wool, cellulose, rayon, nylon, and polyester; said single component fibers and said blended fibers fabricated into a form selected from a group consisting of yarns, woven fabrics, mats, and felts; open-cell foamed polymers, elastomers, polyurethane foams; open-mesh materials, steel wool; meshes of synthetic polymers, polypropylene; flexible solids, and latex.

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A11 56. (Amended) A urine collection device for collecting urine from the penis of a human male comprising

Sheath tube having a tube cavity sufficiently large to surround the penis and an opening radial edge;

Means for covering the penis with said sheath tube;

Means for securing said sheath tube to the penis; and

Means for wicking said urine away counter-gravitationally and gravitationally from the penis that is disposed within said sheath tube, wherein said sheath tube covers the penis by said means for covering and is held in place on the penis by said means for securing.

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A12 79. (Amended) A conveyance tube for conveying urine from a human male collection device to a urine storage device comprising

conduction tube having walls of any thickness and an interior cavity within said walls; and

wicking spacer disposed within said conduction tube wherein said wicking spacer wicks said urine away counter-gravitationally and gravitationally from said human male collection device and prevents said conveyance tube from completely collapsing when said interior cavity is empty.

80. (Amended) The conveyance tube as in claim 79 wherein said conduction tube comprises a material having thin walls of varying cross-section selected from a group consisting of rubbery polymer, silicone rubber, latex rubber, elastic fabric coated, elasticized fabric coated, polyolefins, latex, and polymeric film.

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81. (Amended) The conveyance tube as in claim 79 wherein said wicking spacer comprises a material selected from a group consisting of aggregation-stabilized aggregates of fibrous materials, said aggregation-stabilized aggregates selected from a group consisting of yarns, woven fabrics, mats, and felts, said fibrous materials selected from a group consisting of single component fibers selected from a group consisting of wool, cellulose, rayon, nylon, and polyester, and blended fibers selected from a group consisting of wool, cellulose, rayon, nylon, and polyester; aqueous fluid-wettable, polymer network-stabilized open-cell foamed polymers, selected from a group consisting of polyurethane foams, polyvinylalcohol foams, and cellulose sponges; fiber strength-stabilized open-mesh materials selected from a group consisting of metals made from metals selected from a group consisting of copper and steel, and synthetic polymer meshes made from synthetic polymers selected from a group consisting of polypropylene

and nylon; and pieces of flexible solids selected from a group consisting of latex rubbers, silicone rubbers, polyethylene films, and polypropylene films.

82. (Amended) The conveyance tube as in claim 79 wherein said conduction tube is flat tube when said interior cavity is empty of said urine and inflated when said interior cavity is filled with said urine.

A12- 83. (Amended) The conveyance tube as in claim 79 wherein said wicking spacer is connected to said interior cavity of said conduction tube.

84. (Amended) The conveyance tube as in claim 79 wherein said interior cavity of said conduction tube comprises a wettable material.

85. (Amended) A means for storage of liquid urine collected through a means for collection from an incontinent human male comprising

storage container for said liquid urine having an outer shell and an inner cavity;

and

wicking spacer disposed within said storage container, said wicking spacer being capable of moving said urine within said storage container.

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87. (Amended) The means for storage of liquid urine as in claim 85 further comprising absorbent material disposed within said inner cavity of said storage container selected

from a group consisting of super absorbent polymers, cellulose, cellulose-derived materials, and wettable, fibrous materials.

88. (Amended) The means for storage of liquid urine as in claim 85 further comprising a means for distributing said urine throughout said inner cavity of said storage container.

89. (Amended) The means for storage of liquid urine as in claim 85 further comprising a means for attaching said storage container to said human male.

90. (Amended) The means for storage of liquid urine as in claim 89 wherein said means for attaching said storage container comprises leg straps attached to said outer shell of said storage container for wrapping around the leg of said human male.

91. (Amended) The means for storage of liquid urine as in claim 85 further comprising a means for connecting said storage container to said means for collection.

92. (Amended) The means for storage of liquid urine as in claim 85 wherein said outer shell of said storage container is formed of a material selected from a group consisting of thin polymer film and heavy polymer film.

93. (Amended) The means for storage of liquid urine as in claim 85 wherein said storage container is disposable as sanitary waste.

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94. (Amended) The system as in claim 1 wherein said urine is transported upgradient from said means for collection through said means for conveyance.

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95. (New) A system for collecting, conveying, and storing urine discharged from a penis of a human male comprising

a collection device for collecting urine from the penis including:

a sheath tube having a tube cavity sufficiently large to surround the penis;  
means for covering the penis with said sheath tube;  
means for securing said sheath tube to the penis; and  
means for wicking the urine away counter-gravitationally and  
gravitationally from the penis that is disposed within said sheath tube,  
wherein said sheath tube covers the penis by said means for covering and  
is held in place on the penis by said means for securing;

a storage container for the urine, said storage container having an outer shell, an inner cavity, and a storage container wicking spacer, said storage container wicking spacer being disposed within said storage container, said storage container wicking spacer being capable of moving the urine within said storage container;

a conveyance tube for conveying the urine from said collection device to said storage container including:

a conduction tube having walls of any thickness and an interior cavity within said walls; and  
a conveyance tube wicking spacer disposed within said conduction tube wherein said conveyance tube wicking spacer wicks the urine away

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counter-gravitationally and gravitationally from said collection device and prevents said conveyance tube from completely collapsing when said interior cavity is empty; and

means for wicking the urine away from the penis, said means for wicking being capable of moving the urine counter-gravitationally and gravitationally away from the penis through said collection device and said conveyance tube, said means for wicking being capable of moving the urine into said storage container.

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